



# Milesight Release Note For Network Camera

Firmware Version: 61.8.0.4-r7

Applicable Model: MS-Cxxxx-xxE

Release Date: 12<sup>th</sup> December, 2024

## 1. Overview

Milesight offers a variety of sensor products designed to capture meaningful data. By innovatively applying AI, 5G, and IoT technologies, Milesight brings significant impact to various applications. The company manufactures products with exceptional image quality, unparalleled flexibility, and reliability for the global market. Milesight is pleased to announce the release of the new firmware version 61.8.0.4-r7 for Camera.

In this version, Milesight Network Camera has implemented several valuable new features and optimized the related functions.

**Significant optimizations have been made in VCA event recognition, greatly reducing false alarm rates and enhancing detection range.**

Additionally, various functions have been added and optimized to create a more user-friendly interface. This includes support for **custom language pack modifications, custom interface stream displays, and a more visualized calendar display.**

Moreover, several new protocols have been implemented to enhance product security and ensure consistent information. One of these is support for the **LLDP protocol**, which allows information to be communicated between devices that have established neighboring connections. Furthermore, support for the **EAP-TLS protocol** has been introduced to enhance the security of device information transmission.

Finally, several known bugs have been fixed.

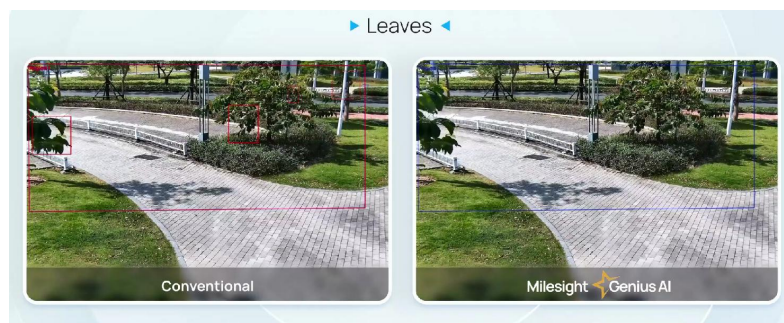
## 2. What's new

### 2.1 Optimizations

#### (1) Optimize the VCA algorithm model.

①-Drastically reduce false alarm to enhance event triggering accuracy.

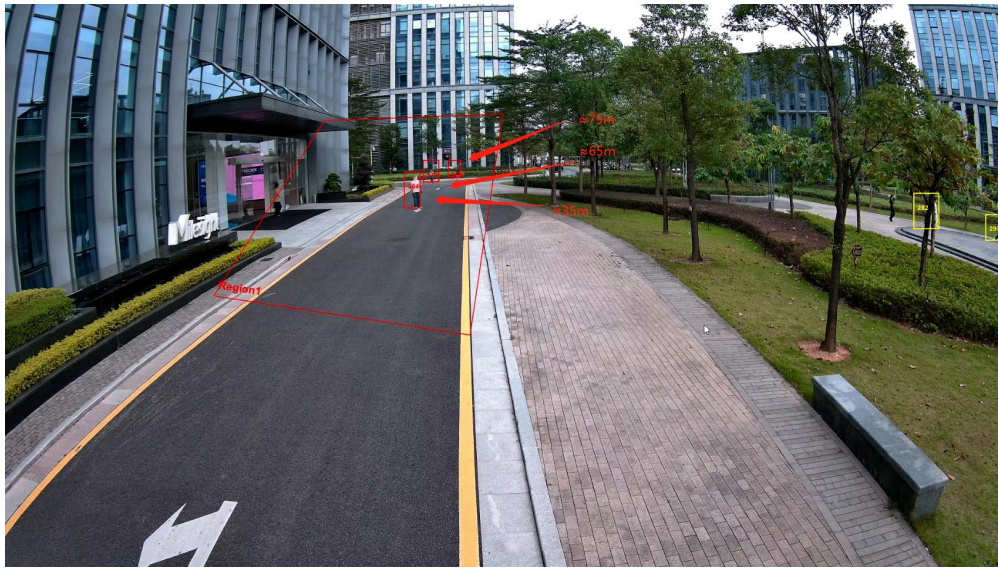
- ❖ In various environments, the presence of moving animals such as insects, mosquitoes, dogs, cats, and other creatures, as well as swaying leaves, lighting fluctuations, rain, and other environmental changes, can trigger event animals, causing users to be annoyed.
- ❖ We have implemented a filtering strategy that accurately eliminates environmental interferences, triggering alarms only for genuinely important events. This approach has successfully achieved ultra-low false alarm rates and significantly improved event-triggering accuracy. Hence, users no longer need to worry about false alarms.



②-Significantly extend the recognition range and improve the accuracy at varying distances.

- ❖ By employing advanced algorithm model architecture and optimized minimum recognition resolution along with a tailored small object database and real-world usage environment enhancements, the camera's detection range has significantly improved under various lighting conditions: reaching up to 75m in full-light scenarios, 45m in low-light environments, and 30m in IR mode.
- ❖ These enhancements have greatly boosted the ability to identify distant targets, markedly improving detection performance at short and long

ranges, and ensuring that users receive accurate monitoring results in diverse scenarios.



In full-light scenario

③-Enhance the recognition accuracy of jogging objects and multi-object detection.

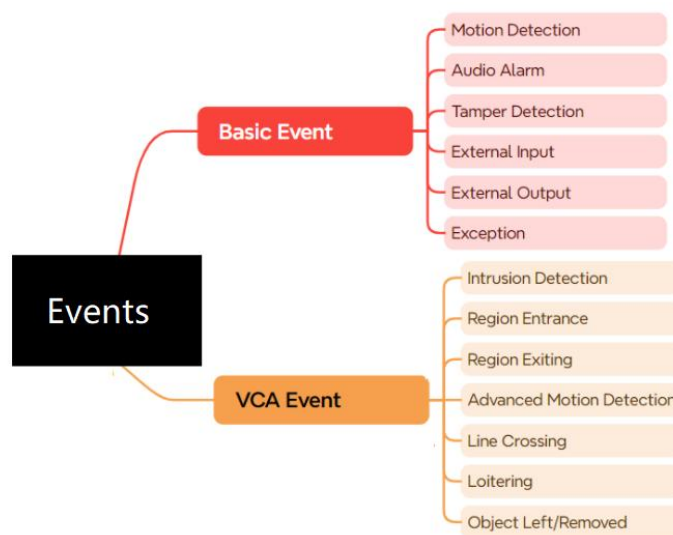
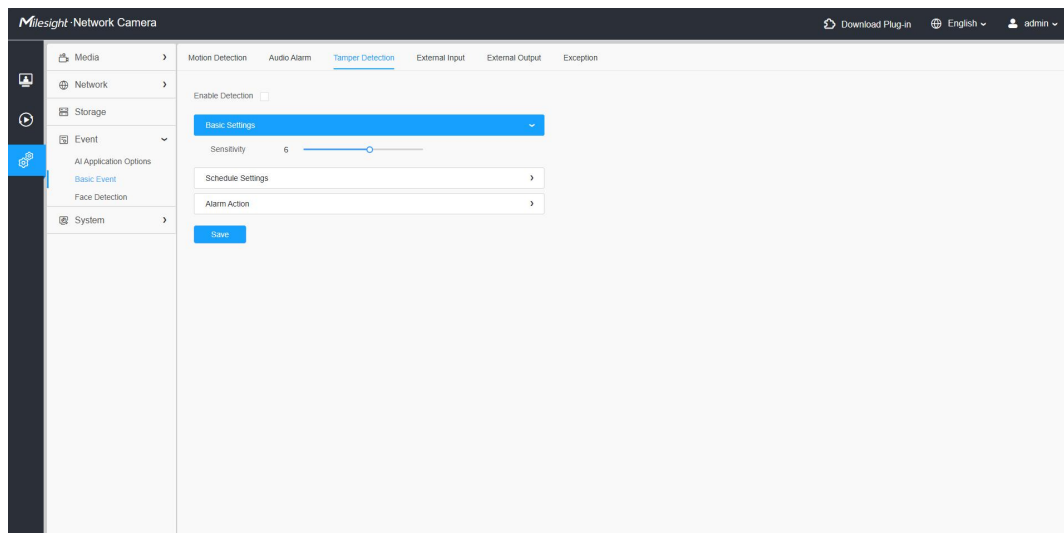
- ❖ In some scenarios, jogging or multi-overlapping targets intrusion the region that may lead to missed detections, with the latest model optimization, it has been greatly reduced and avoided.
- ❖ The improvements in the new algorithm model have enhanced detection accuracy and robustness, ensuring precise target identification and tracking in complex environments.

**Note:** For more detailed information, please refer to the following link: [Meet Milesight's GENIUS AI with Superior Accuracy!](#)

## (2) Optimize the events layout.

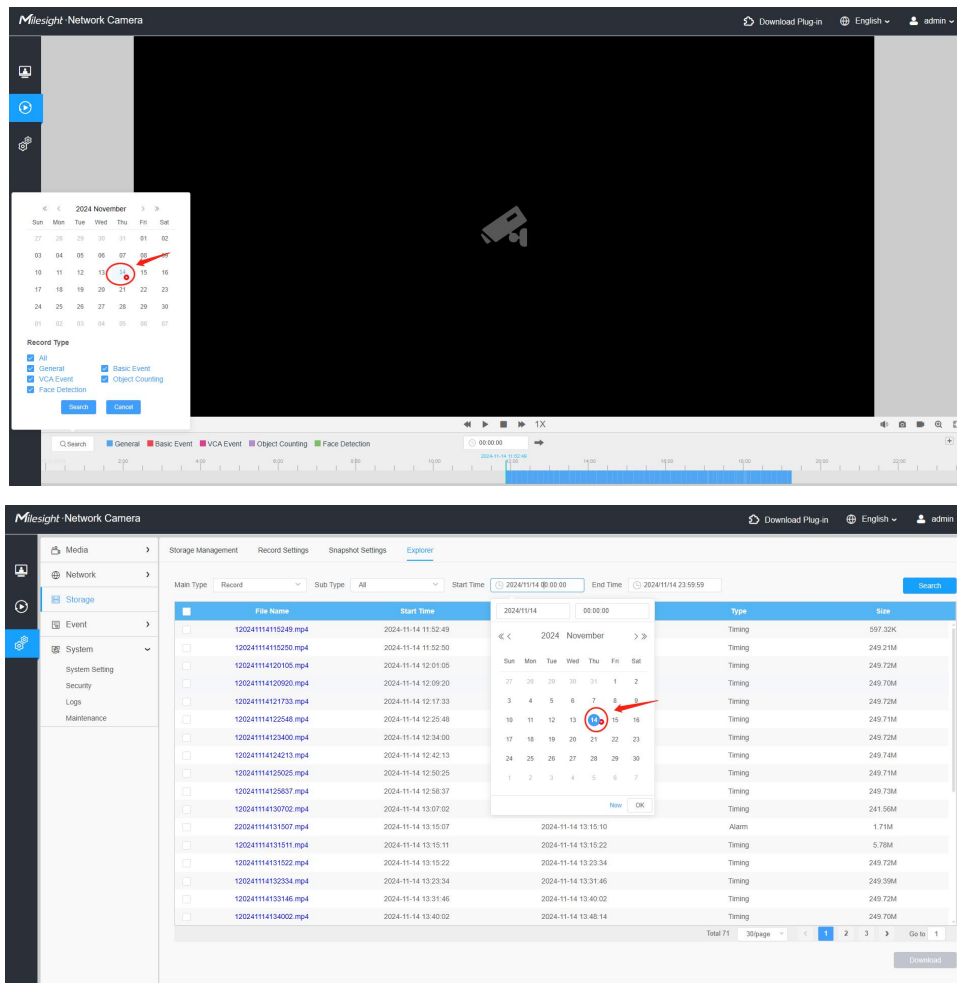
- ❖ Move Temper Detection to Basic Event interface this adjustment clarifies and simplifies event classification, making management and processing more efficient.

**Note:** When auto tracking and tamper detection are simultaneously enabled, priority is given to auto tracking.



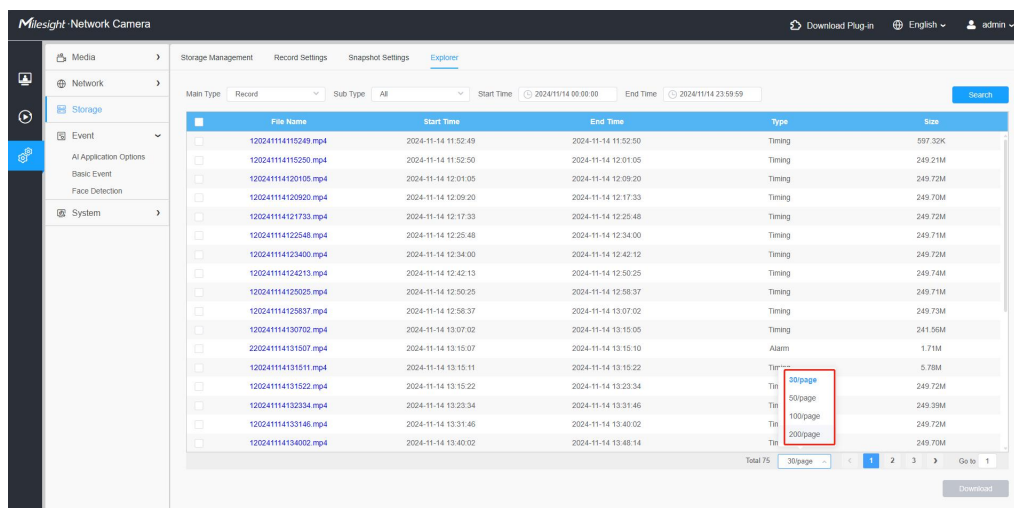
### (3) Optimize the date display in the Playback and Storage interfaces.

- ❖ This feature in the Playback and Storage interfaces includes a new enhancement: a red icon will appear under the corresponding date when there is a recording for that day helping users quickly identify which dates have recordings, thereby improving the efficiency of locating and managing footage.



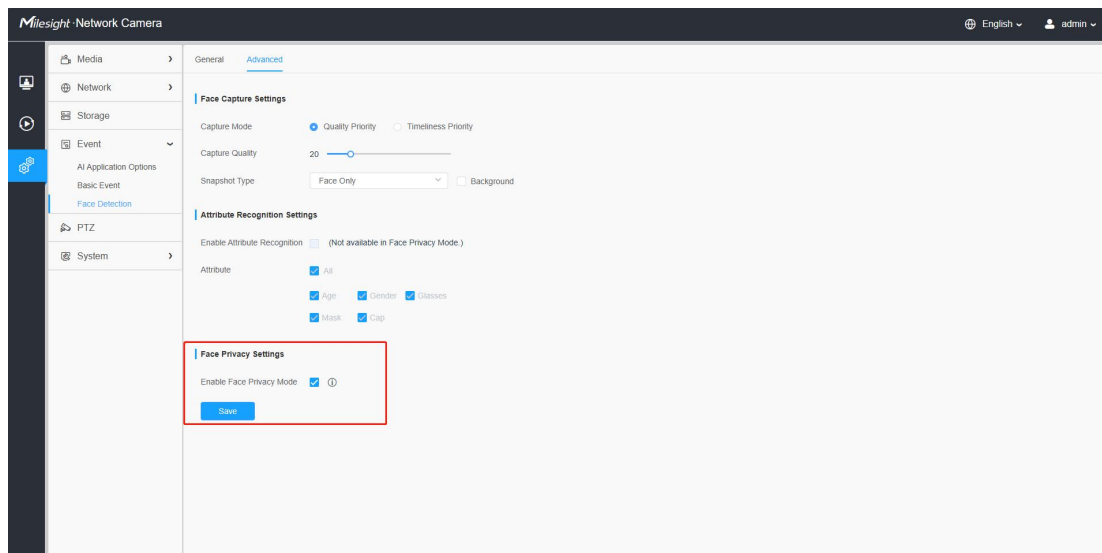
#### (4) Optimize the explorer for SD card files.

- ❖ Allows users to view up to 200 records per page, export multiple video files simultaneously, and customize the display for more entries. This enhancement enables users to browse and manage a large number of files more conveniently, thereby improving the overall user experience.

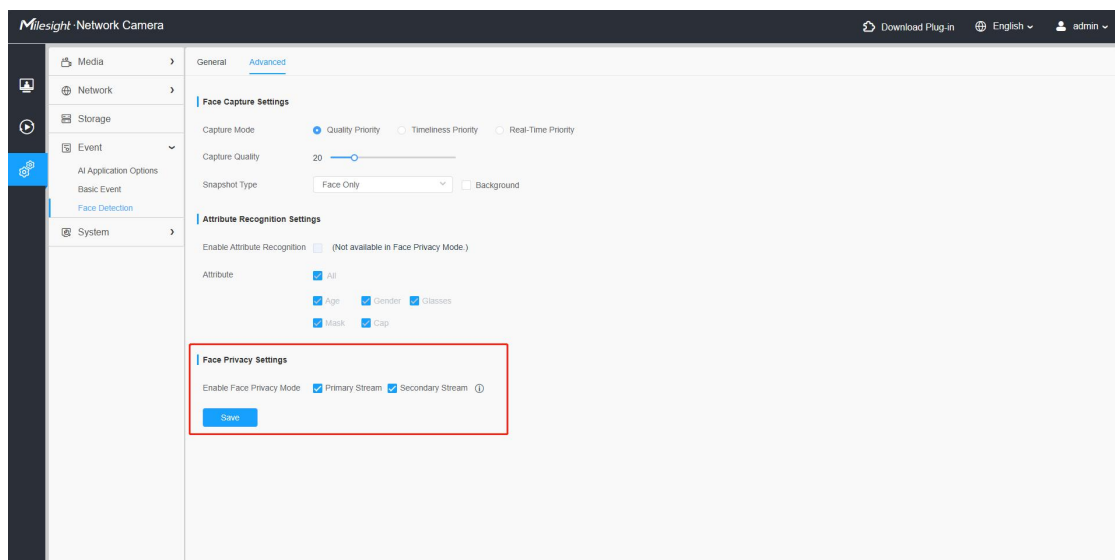


## (5) Optimize the Face Privacy Mode.

- ❖ This version enables independent configuration of face privacy mode for the primary and secondary streams. Users can adjust face privacy settings separately for each stream, providing greater flexibility to meet diverse streaming and privacy requirements.



✧ Before



✧ After

## (6) Optimize the timestamp for HTTP notifications.

- ❖ When sending POST messages, after the "time" field, newly add "time\_msec" field in the format of yyyy-mm-dd hh:mm:ss.sss, the timestamp has been refined to millisecond precision. This enhancement mitigates errors caused by insufficient time accuracy, aiding clients in



conducting more precise back-end analysis and ensuring the accuracy and reliability of data analysis.

```

    "resolution_w": 1920,
    "resolution_h": 1080,
    "trackId": 13555,
    "objClass": 1,
    "detection_region": 1,
    "coordinate_x1": 846,
    "coordinate_y1": 576,
    "coordinate_x2": 1392,
    "coordinate_y2": 1057
  }
192.168.69.222 - - [04/Jan/2024 13:56:53] "POST /post HTTP/1.1" 200 -
192.168.69.222 - - [04/Jan/2024 13:56:55] "POST /post HTTP/1.1" 200 302
{
  "event": "Advanced Motion Detection",
  "device": "Network Camera",
  "time": "2024-01-01 12:15:37",
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  "resolution_h": 1080,
  "trackId": 13555,
  "objClass": 1,
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  "coordinate_x1": 828,
  "coordinate_y1": 571,
  "coordinate_x2": 1326,
  "coordinate_y2": 1062
}
192.168.69.222 - - [04/Jan/2024 13:56:55] "POST /post HTTP/1.1" 200 -
192.168.69.222 - - [04/Jan/2024 13:56:57] "POST /post HTTP/1.1" 200 302
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  "coordinate_y1": 567,
  "coordinate_x2": 1338,
  "coordinate_y2": 1071
}
192.168.69.222 - - [04/Jan/2024 13:56:57] "POST /post HTTP/1.1" 200 -

```

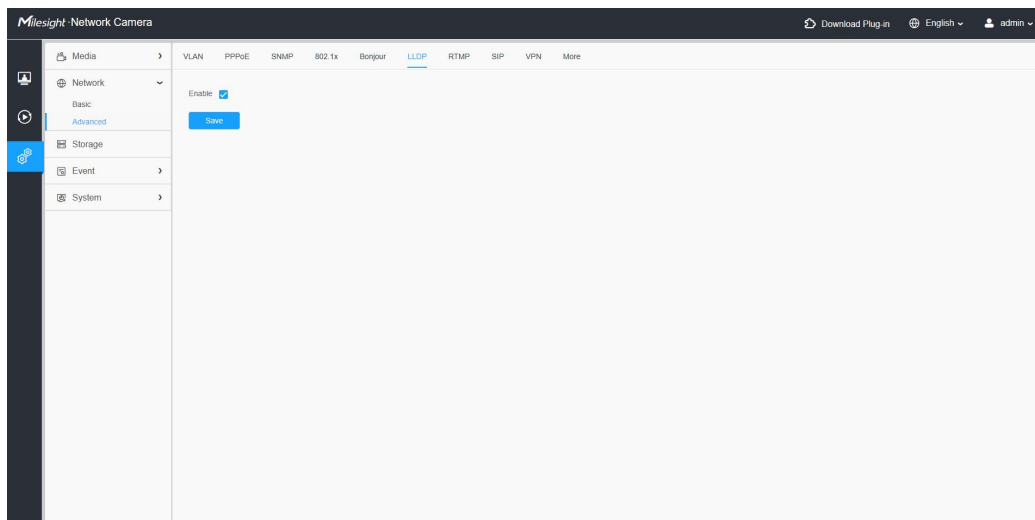
After the "time" field,  
newly add "time\_msec" in the format of yyyy-mm-dd hh:mm:ss.sss

## 2.2 New Features

### 1) Support LLDP protocol to transmit the device information.

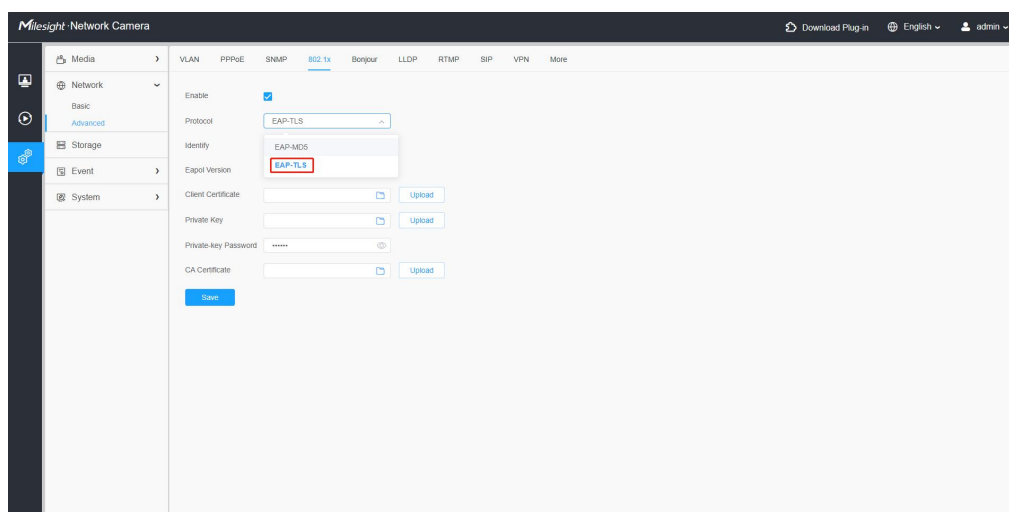
- ❖ The LLDP protocol allows the device to actively send its name, port details, and other information to nearby devices, and to receive and parse the information sent by neighboring devices.
- ❖ This enables network devices to automatically recognize and understand each other's presence and capabilities, significantly simplifying network management and configuration complexity.





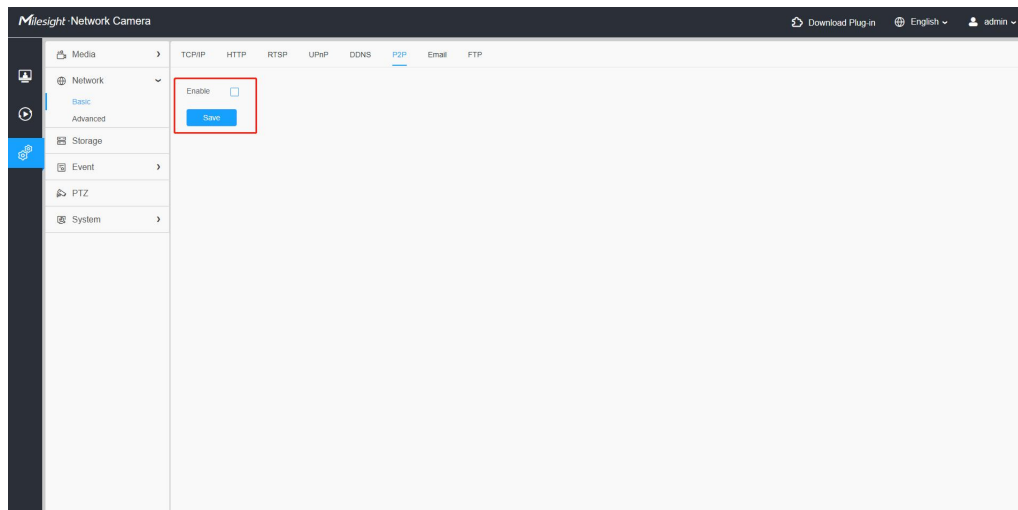
## 2) Support for the EAP-TLS protocol in 802.1X interface.

- ❖ It supports the EAP-TLS protocol to enhance device security and enable bidirectional authentication through certificates, thereby increasing the security and reliability of network communication.



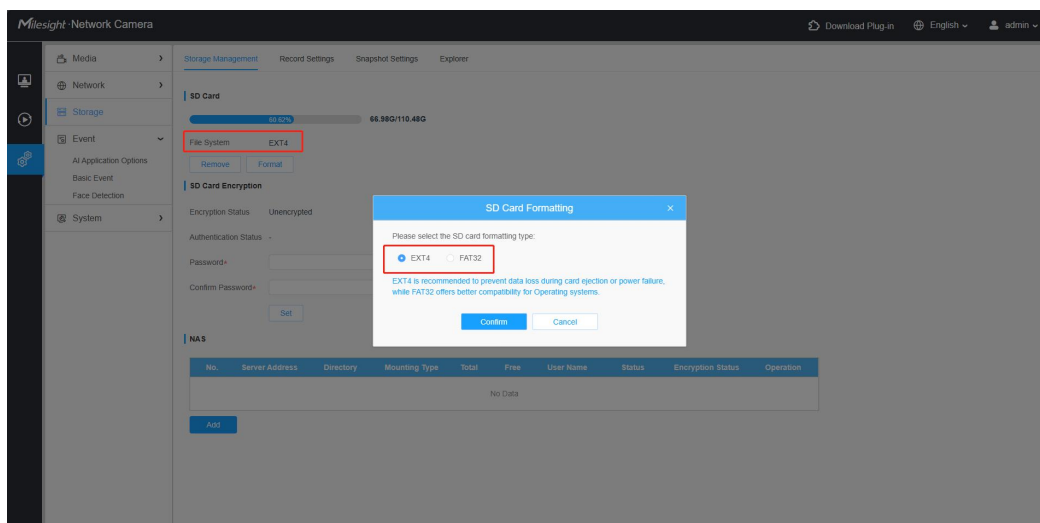
## 3) Support disabling requests of P2P protocol to the server.

- ❖ When the P2P protocol is enabled, it will continuously access the server to obtain the P2P activation status, however, you can disable the camera's requests to the server with a simple checkbox, allowing you to prevent it from communicating with the server at any time.
- ❖ This not only safeguards your privacy but also reduces unnecessary network traffic, providing you with more flexible and autonomous control over your device.



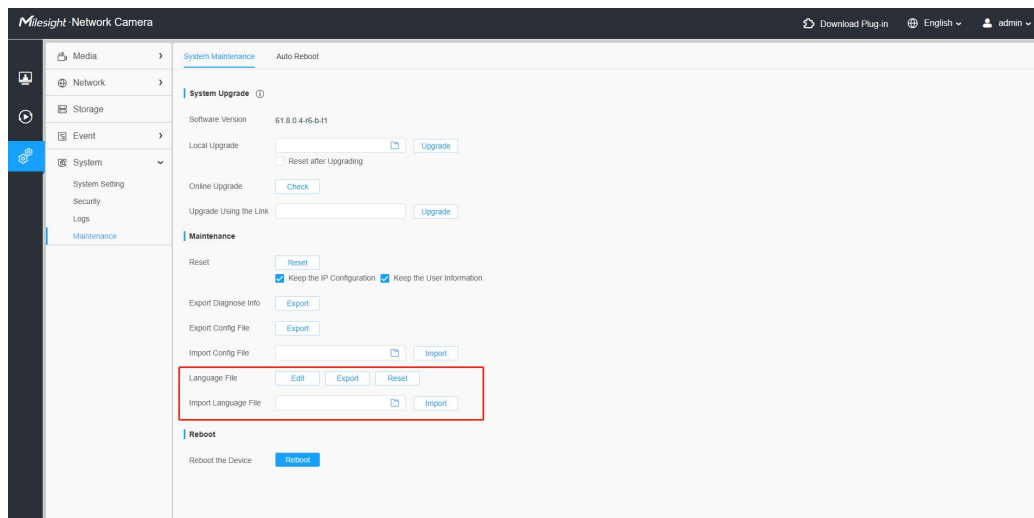
#### 4) Support the EXT4 format in SD card file system.

- ❖ Enable the SD card to handle larger files while delivering enhanced performance and stability allowing users to experience more efficient data management and improved file system support when using the SD card.



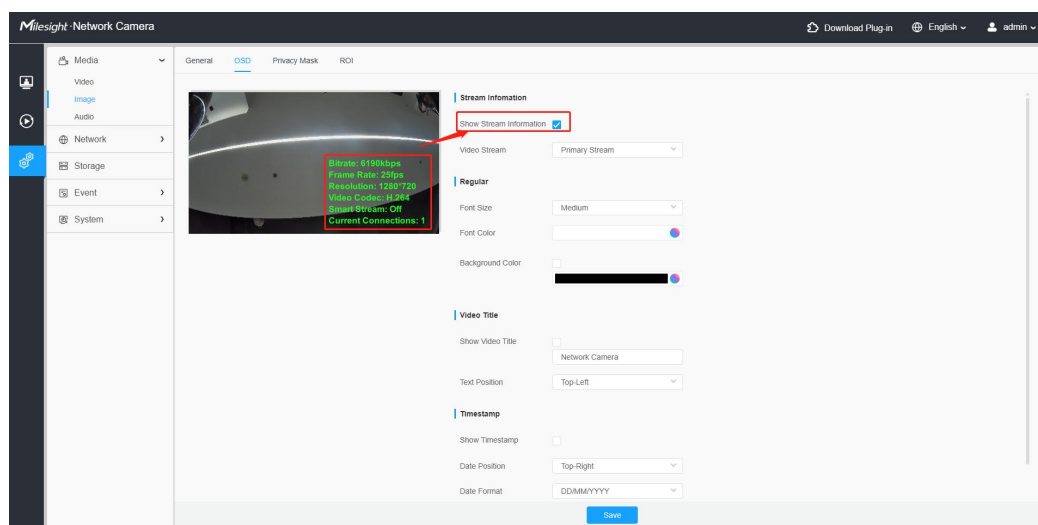
#### 5) Support modifying language translation packs.

- ❖ It allows users to modify or import predefined language translation packs, enabling them to customize the interface language based on their preferences. This capability allows for better adaptation to various linguistic environments, thereby enhancing the user-friendliness of the camera's design.



## 6) Support disabling or enabling the display of stream information.

- ❖ Users can configure the OSD to determine whether to display stream information. In addition, you can also log in to the website via your mobile phone to choose whether to display the streaming information. This enables you to adjust the interface display according to actual needs, providing greater flexibility in managing and monitoring video content.

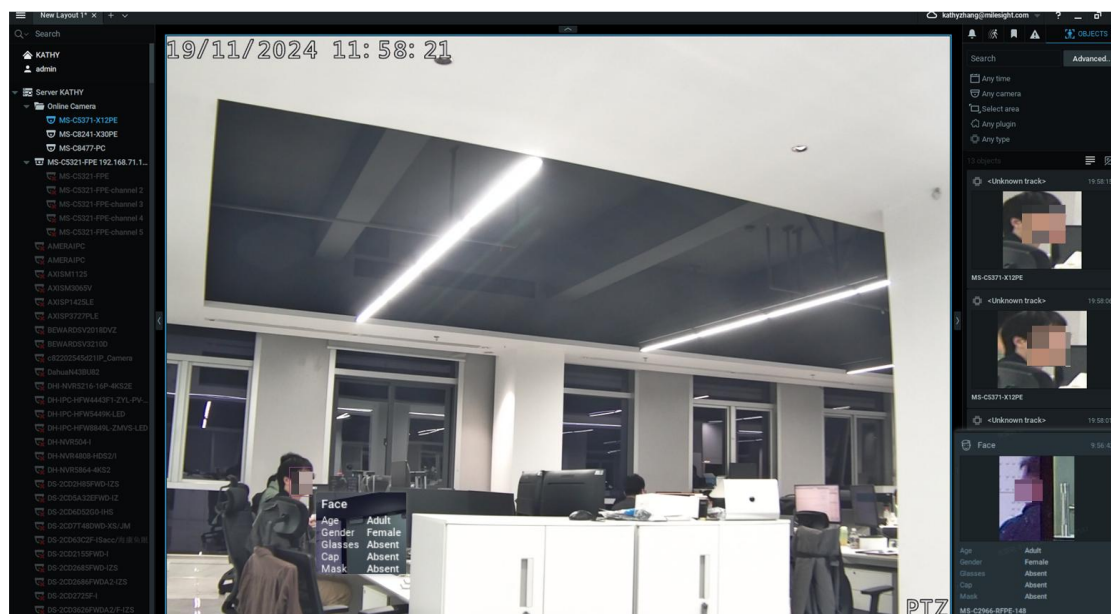
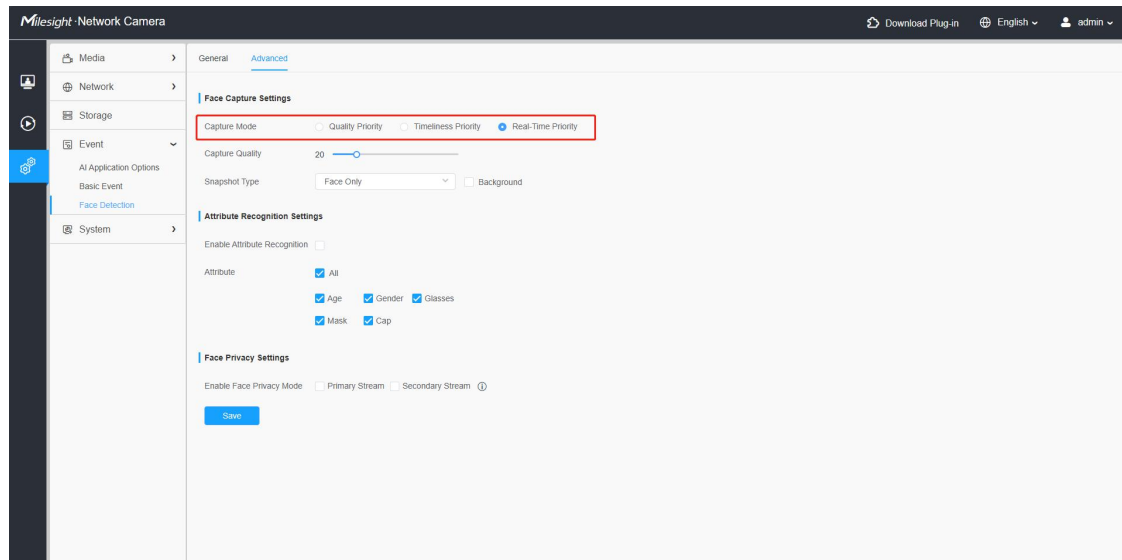


## 7) Support for Real-Time Priority feature.

- ❖ The camera pushes the detection frame and target attributes to NX's VMS, which displays this information in real-time on the back-end for centralized management. Customers can directly view this information through the live view interface. This functionality ensures that users can instantly receive detailed facial attribute information, such as age, gender,

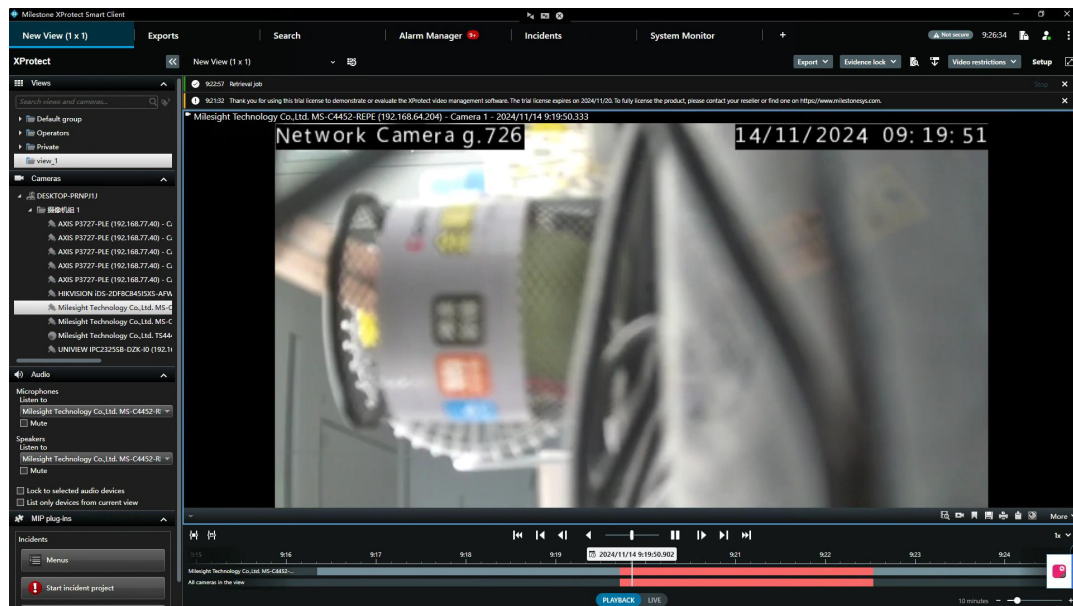
and appearance, while monitoring video, thereby enhancing the accuracy and practicality of surveillance.

**Note:** Attributes recognition only supports when Capture Mode is Quality Priority or Real-Time Priority



## 8) Support the retrieval of recordings from SD cards on Milestone to improve ONVIF compatibility.

- ❖ With this feature, users can directly access and manage recordings stored on camera SD cards within the Milestone VMS system, achieving centralized video management and enhancing the system's convenience and efficiency.



**9) Support enabling the wiper for cameras on the Genetec VMS system to perfect ONVIF compatibility.**

- ❖ Users can remotely control the camera's wiper function within the Genetec system, ensuring clear surveillance footage even in adverse weather conditions. This significantly enhances the system's practicality and reliability.

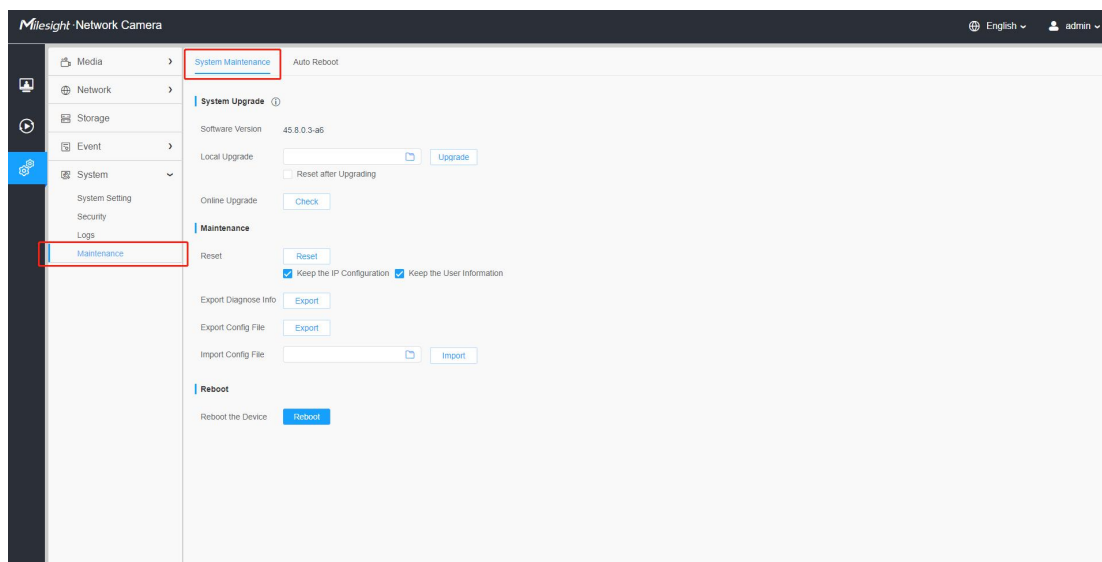
## 2.3 Bug Fixed

- (1) Fixed the problem of intrusion detection events not being pushed and other VCA events not pushing 2/3/4 region messages through ONVIF protocol .
- (2) Fixed the issue that the screenshots of the secondary stream and tertiary stream could not be taken via CGI.
- (3) Fixed known bugs.

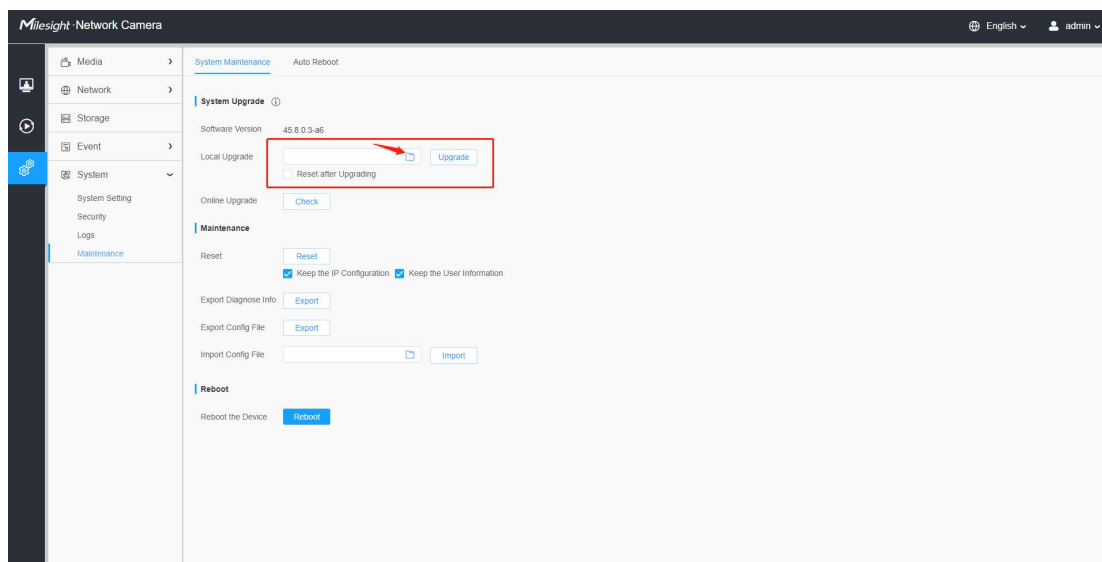
### 3. Upgrade steps

Please check each model with the right firmware version as mentioned above, then upgrade as the following steps:

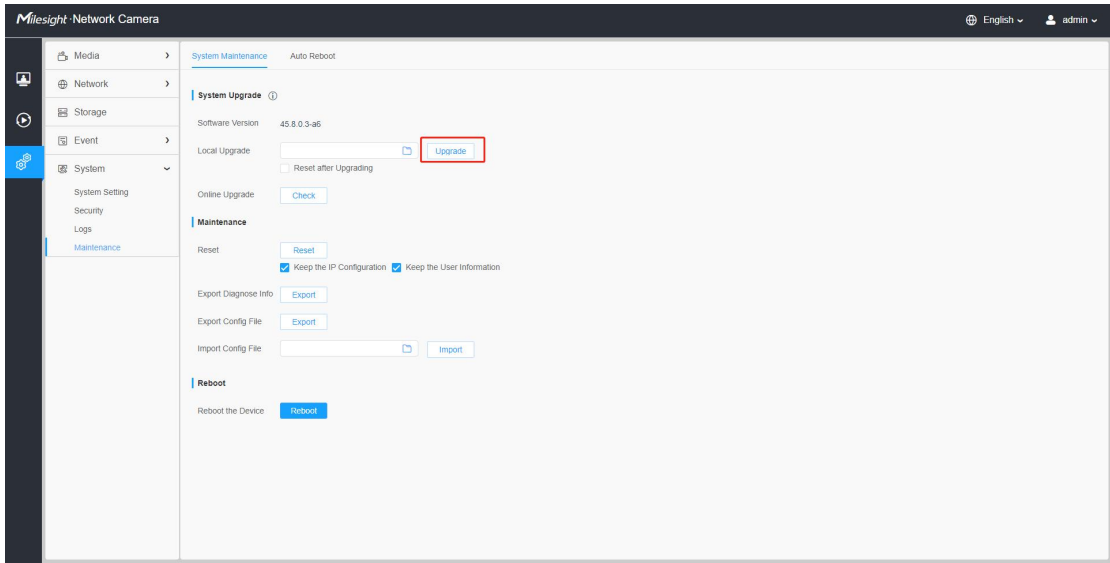
**Step 1:** Go to the web page of Network Camera, Settings -> System -> Maintenance -> System Maintenance.



**Step 2:** Choose file for the upgrade.



**Step 3:** Click the "Upgrade" button, then please wait about 1~3 minutes. The upgrade will be done after the system reboots successfully.



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